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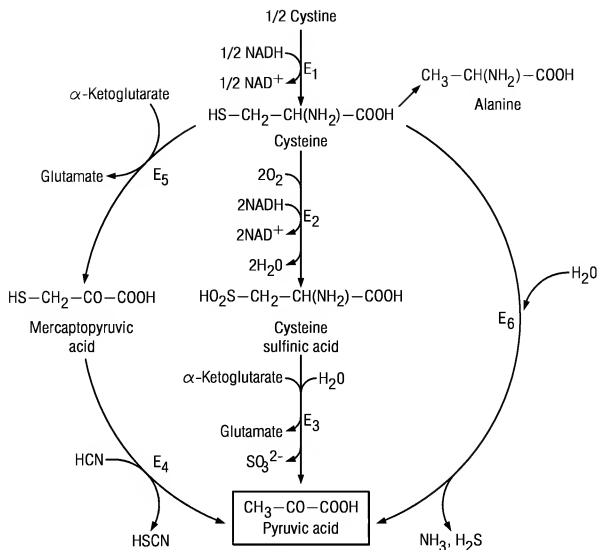


FIG. 1

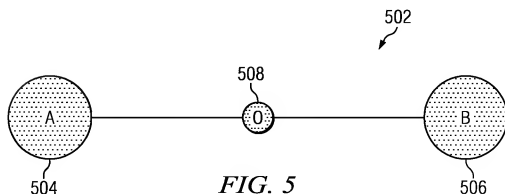


FIG. 5

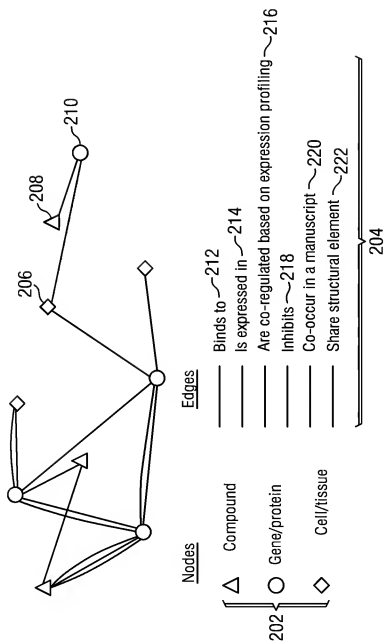
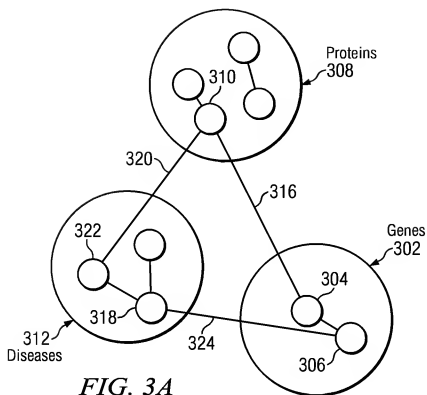
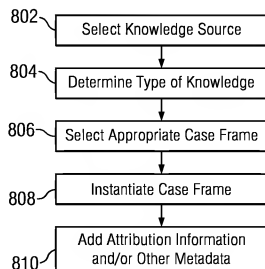
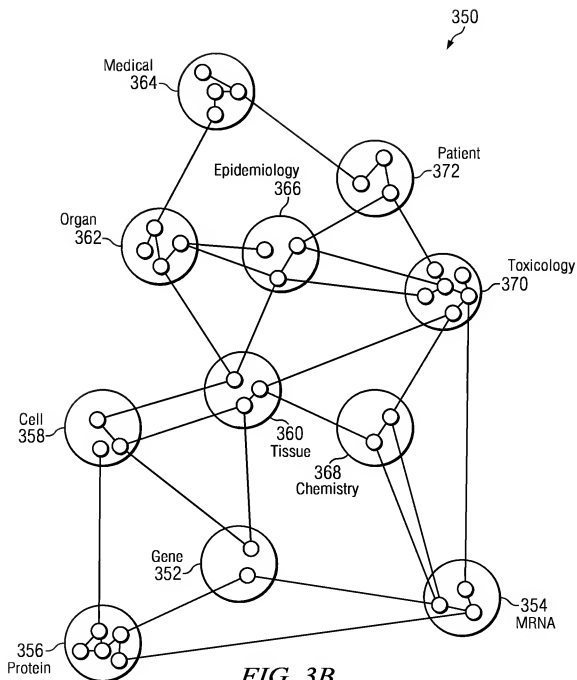


FIG. 2

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*FIG. 3A**FIG. 8*

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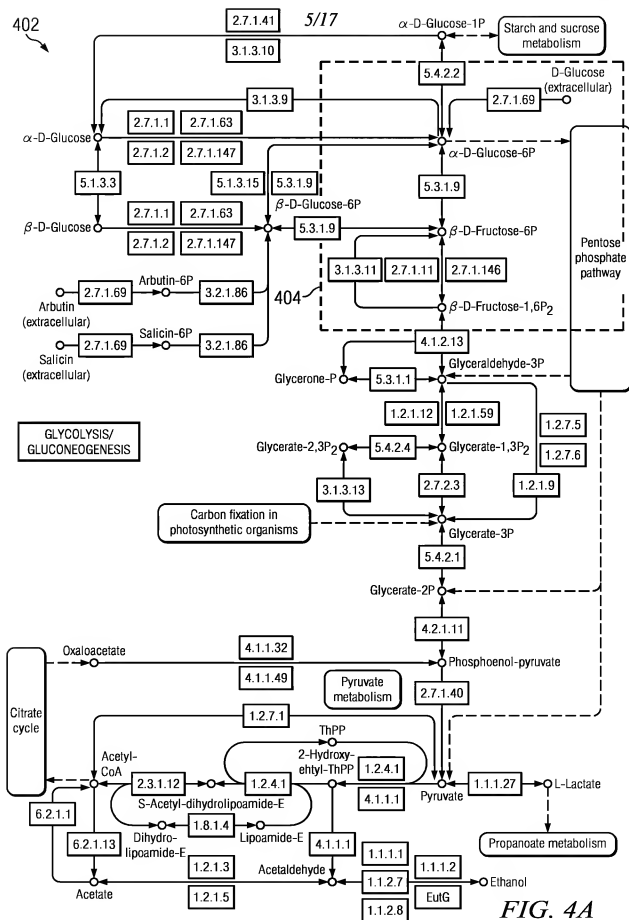


FIG. 4A

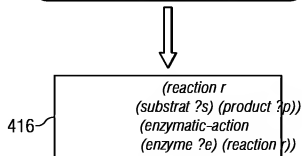
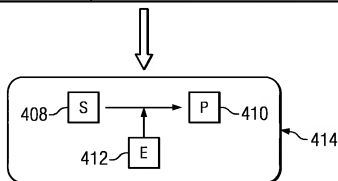


FIG. 4B

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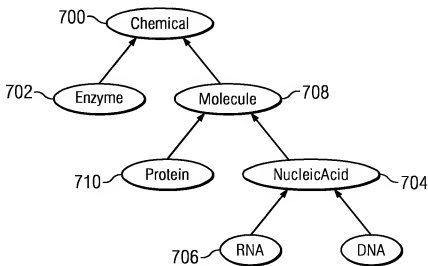
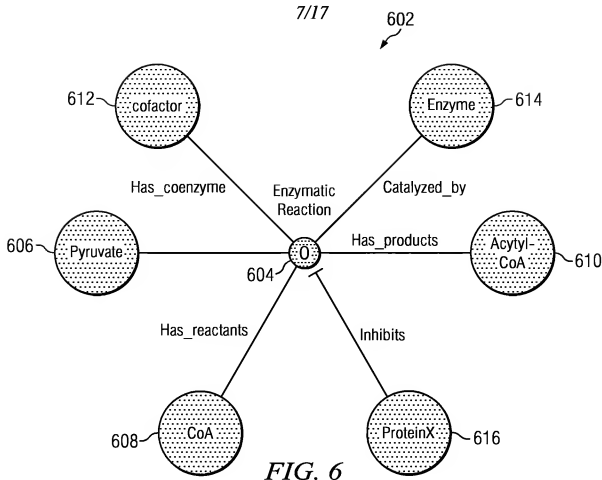


FIG. 7A

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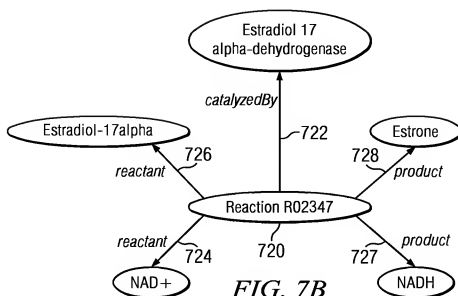


FIG. 7B

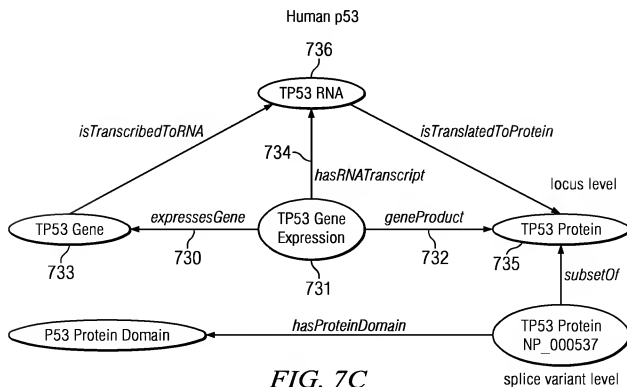
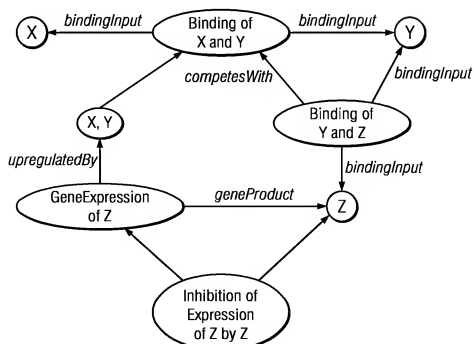
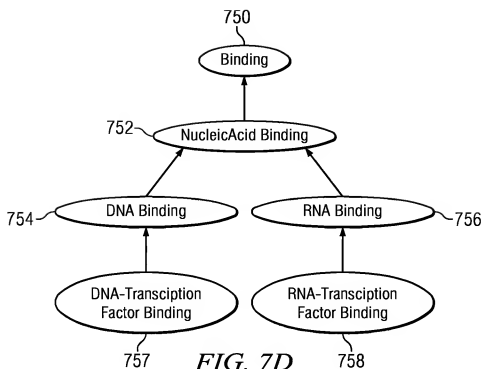


FIG. 7C

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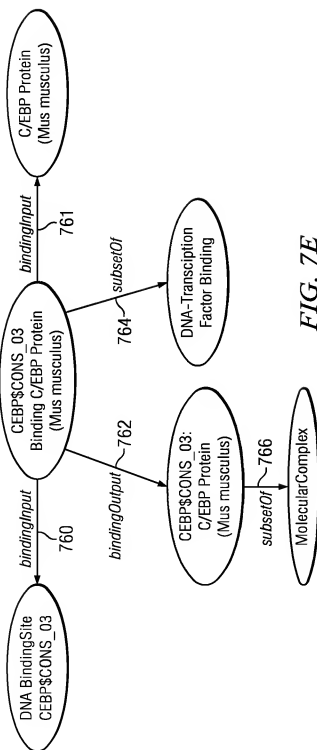


FIG. 7E

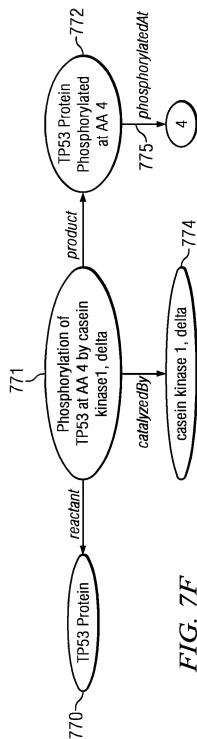




FIG. 7F

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850



Genstruct Biopathway Knowledge Assembler
The Knowledge Assembly Company



HISTORY

Browser: search for an enzyme or molecule

852

Select from 19 terms

Select from 19 terms

5:pyruvate oxidation
1:pyruvate transport
3:Phosphoenolpyruvate
2:Pyruvate Dehydrogenase Complex Mm
5:glycerol biosynthesis from pyruvate
1:acetyl-CoA biosynthesis from pyruvate
2:Catalytic Activity of pyruvate dehydrogenase complex
4:pyruvate dehydrogenase complex Hs phosphorylated at ?
2:Pyruvate Dehydrogenase Complex Mm phosphorylated at S
2:pyruvate dehydrogenase complex Rn phosphorylated at ?
21:Catalytic Activity of pyruvate dehydrogenase complex Hs
6:Catalytic Activity of Pyruvate Dehydrogenase Complex Mm
5:Catalytic Activity of pyruvate dehydrogenase complex Rn
3:(pyruvate dehydrogenase (lipoamide)) phosphatase activity
2:Activation of Catalytic Activity of pyruvate dehydrogenase complex Hs by serum glucose
1:Pyruvate Dehydrogenase Complex Mm -> Pyruvate Dehydrogenase Complex Mm phosphorylated at S
1:Activation of pyruvate oxidation by Kinase Activity of AMP-activated protein kinase complex Hs
35:Pyruvate : Propanoic acid, 2-oxo- ion(1-)
53:Pyruvate oxid..... : Thioctic acid

- Filtered 241 terms.

ns only

Back to top

854

FIG. 9

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900

Browser: search for an enzyme or molecule		Keyword Search	
name	<input type="text" value="pyruvate*"/>	<input type="text" value="21:Catalytic Activity of pyruvate dehydrogenase complex Hs"/> - Filtered 241 terms.	
<input type="button" value="Search"/>		Filter by Organism <input checked="" type="checkbox"/> All Species <input type="checkbox"/> Human <input type="checkbox"/> Mouse <input type="checkbox"/> Rat	
Filter by Object Type <input checked="" type="checkbox"/> All Objects <input type="checkbox"/> Protein <input type="checkbox"/> Gene Expression		Options <input checked="" type="checkbox"/> Objects with Causal Connections only <input checked="" type="checkbox"/> Show counts of Causal Connection <input checked="" type="checkbox"/> Hide Homologene Edits <input checked="" type="checkbox"/> Hide Removed Assertions	

Term ID 869917: Catalytic Activity of pyruvate dehydrogenase complex Hs													
<table border="1"> <tr> <td colspan="2">Assertions</td> </tr> <tr> <td>Relationship</td> <td>Associated Information</td> </tr> <tr> <td>Summary (2)</td> <td> Homologous (0) Activation (11) Upstream Downstream </td> </tr> <tr> <td>Summary Assertions (2)</td> <td> Attribution Inhibition (10) Upstream Downstream </td> </tr> <tr> <td></td> <td>Source</td> </tr> </table>				Assertions		Relationship	Associated Information	Summary (2)	Homologous (0) Activation (11) Upstream Downstream	Summary Assertions (2)	Attribution Inhibition (10) Upstream Downstream		Source
Assertions													
Relationship	Associated Information												
Summary (2)	Homologous (0) Activation (11) Upstream Downstream												
Summary Assertions (2)	Attribution Inhibition (10) Upstream Downstream												
	Source												
<table border="1"> <tr> <td colspan="2">Summary Assertions (2)</td> </tr> <tr> <td>catalyzedBy</td> <td>pyruvate dehydrogenase complex Hs</td> </tr> <tr> <td>instanceOf</td> <td>EnzymaticReaction template</td> </tr> </table>				Summary Assertions (2)		catalyzedBy	pyruvate dehydrogenase complex Hs	instanceOf	EnzymaticReaction template				
Summary Assertions (2)													
catalyzedBy	pyruvate dehydrogenase complex Hs												
instanceOf	EnzymaticReaction template												
<table border="1"> <tr> <td colspan="2">Back to Top</td> </tr> <tr> <td>basic/complexes.bel</td> <td>15169745</td> </tr> <tr> <td>core/core_ontology.bel</td> <td>15169745</td> </tr> </table>				Back to Top		basic/complexes.bel	15169745	core/core_ontology.bel	15169745				
Back to Top													
basic/complexes.bel	15169745												
core/core_ontology.bel	15169745												

FIG. 10

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Search Criteria

Search

Source ☐ matched terms (15)

Target ☐ matched terms (2)

Pubmed ID

Model ID

Date Range to

Project

Species

Document Name

Statement ID

Status

Author

Max. Rows

Options

☐ search in either source or target

☐ search in models only

☐ show results in entry page directly

☐ override max rows to retrieve

Include additional columns

☒ pubmed id

☐ model names

☐ statement author

Show Contexts

☒ species

☒ body part

☐ cell line

☐ cell type

☐ disease

☐ experiment type

☒ tissue

Common Searches

What's new today?

What did I change/create in the past week?

What recent statements are still under review?

Context criteria

Context Type

Context

No context criteria set

Search

Search found 1 statements in 0.0030s. Statements retrieval took 0.0020s.

PubMed ID	Source	Relationship	Target	species	body part	tissue
11978179	catof("pyruvate dehydrogenase complex Hs")	^	"oxidative phosphorylation"	Hs		

FIG. 11

1000

1200

>> Select type of path find >> **Select sources/targets** >> Verify sources/targets

Source Reference Type:

Sources:

Target Reference Type:

Targets:

Separate sources by a new line or the pipe ("|") character.

Separate targets by a new line or the pipe ("|") character.

Hypothesis Scores

0.25 Zoom:

Nodes Edges

Source	Relationship	Target
Estradiol-17beta	->	MAPK1 P@?
Estradiol-17beta	->	MAPK1 P@Y1
Estradiol-17beta	->	kao/(MEK Fam
MAPK1 P@?	-@-	MAPK1
MAPK1 P@T185	-@-	MAPK1
MAPK1 P@T187	-@-	MAPK1
kao/(MEK Family Hs)	=>	MAPK1 P@T1

1204

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FIG. 12

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1300

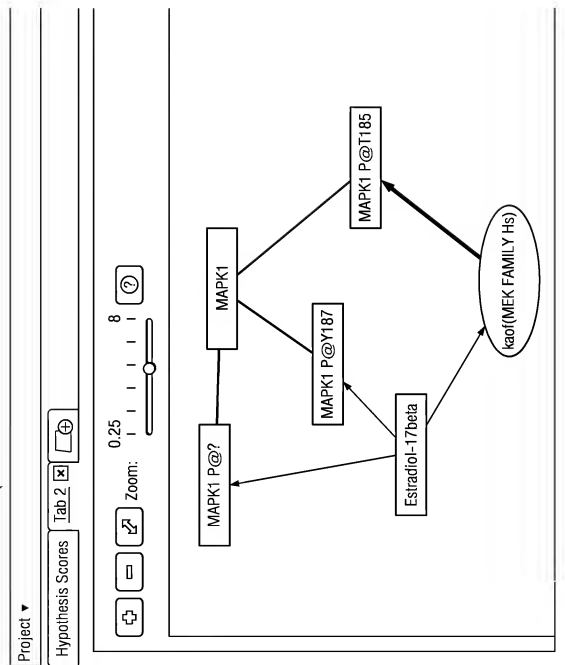
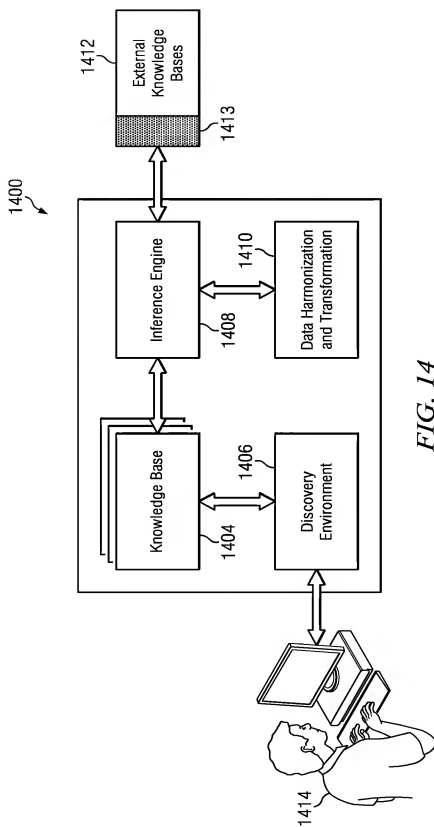


FIG. 13

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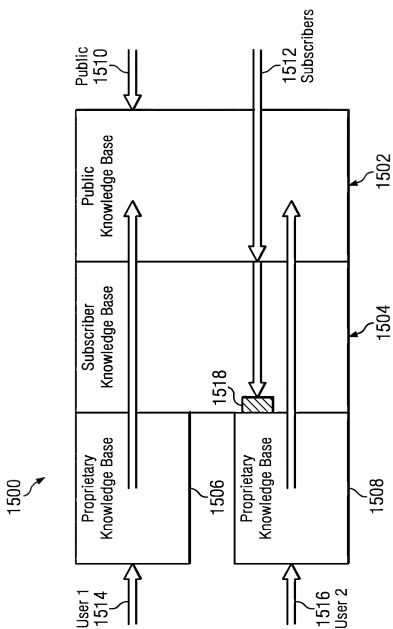


FIG. 15